XERC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	XERC, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) XERC Polyclonal Antibody
Product Gene Name	anti-XERC antibody
Product Synonym Names	XERC Antibody; Tyrosine recombinase XerC xerC b3811 JW3784
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	E Coli (strain K12)
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	33,868 Da
3D Structure	ModBase 3D Structure for P0A8P6
Immunogen	Recombinant Escherichia coli (strain K12) xerC protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-XERC antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-XERC antibody	MBS7162946 is an antibody targeting XERC. Also known as Rabbit anti-Escherichia coli (strain K12) XERC Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-XERC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XERC. It may not necessarily be applicable to this product.

NCBI GI #	16131663
NCBI GeneID	948355
NCBI Accession #	NP_418256.1
UniProt Primary Accession #	P0A8P6
UniProt Secondary Accession #	P22885; Q2M8B7

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	site-specific tyrosine recombinase
NCBI Official Symbol	xerC
NCBI Official Synonym Symbols	ECK3806; JW3784
UniProt Protein Name	Tyrosine recombinase XerC
Protein Family	Putative tyrosine recombinase
UniProt Gene Name	xerC
NCBI Protein Information	site-specific tyrosine recombinase
NCBI Summary for XERC	XerCD acts at the Dif site. [More information is available at EcoGene: EG11069]. XerC is part of the Xer site-specific recombination system . [More information is available at EcoCyc: EG11069].
UniProt Comments for XERC	Site-specific tyrosine recombinase, which acts by catalyzing the cutting and rejoining of the recombining DNA molecules. Binds cooperatively to specific DNA consensus sequences that are separated from XerD binding sites by a short central region, forming the heterotetrameric XerC-XerD complex that recombines DNA substrates. The complex is essential to convert dimers of the bacterial chromosome into monomers to permit their segregation at cell division. It also contributes to the segregational stability of plasmids at ColE1 xer (or cer) and pSC101 (or psi) sites. In the complex XerC specifically exchanges the top DNA strands ().
Research Articles on XERC	**1.** e reveal a physical and functional interaction between Topo IV and the XerCD recombinases acting at the dif site. This interaction is modulated by MatP, a protein involved in the organization of the Ter macrodomain. These results show that Topo IV, XerCD/dif and MatP are part of a network dedicated to the final step of chromosome management during the cell cycle.
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